

# DÆDALUS

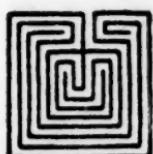
JOURNAL OF THE AMERICAN ACADEMY OF ARTS AND SCIENCES

---

Volume 117 of the *Proceedings of the American Academy of Arts and Sciences*, 1988

Contents

Index of Authors



# Contents

---

## Artificial Intelligence

Number 1, Winter 1988

v Preface

**Seymour Papert**  
1 One AI or Many?

**Hubert L. Dreyfus and Stuart E. Dreyfus**  
15 Making a Mind Versus Modeling the Brain: Artificial Intelligence Back at a Branchpoint

**Robert Sokolowski**  
45 Natural and Artificial Intelligence

**Pamela McCordock**  
65 Artificial Intelligence: An Aperçu

**Jack D. Cowan and David H. Sharp**  
85 Neural Nets and Artificial Intelligence

**Jacob T. Schwartz**  
123 The New Connectionism: Developing Relationships Between Neuroscience and Artificial Intelligence

**George N. Reeke, Jr., and Gerald M. Edelman**  
143 Real Brains and Artificial Intelligence

**W. Daniel Hillis**  
175 Intelligence as an Emergent Behavior; or, The Songs of Eden

**David L. Waltz**  
191 The Prospects for Building Truly Intelligent Machines

**Anya Hurlbert and Tomaso Poggio**  
213 Making Machines (and Artificial Intelligence) See

**Sherry Turkle**  
241 Artificial Intelligence and Psychoanalysis: A New Alliance

**Hilary Putnam**  
269 Much Ado About Not Very Much

**Daniel C. Dennett**  
283 When Philosophers Encounter Artificial Intelligence

**John McCarthy**  
297 Mathematical Logic in Artificial Intelligence

## Contents

---

### Religion and Education

Number 2, Spring 1988

v Preface

1 Conference on Religion and Education

147 **John B. Cobb, Jr.**  
Education and Religious Pluralism

151 **Daniel Callahan**  
Tension Between Religion and Philosophy

153 **George Lindbeck**  
The Search for Habitable Texts

157 **Robert Kiely**  
Religion in (and out of) the University Curriculum

161 **Timothy S. Healy, S.J.**  
The Contrary Model

163 **Steven M. Tipton**  
The Church as a School for Virtue

177 **Isadore Twersky**  
Random Thoughts

181 **Wendy Doniger O'Flaherty**  
The Case for the History of Religions

187 Notes on Contributors

## Contents

---

### Three Decades of *Dædalus*

Number 3, Summer 1988

v Preface

1 Erik H. Erikson  
1 Youth: Fidelity and Diversity

25 Alice S. Rossi  
25 Equality between the Sexes: An Immodest Proposal

73 John Maynard Smith  
73 Eugenics and Utopia

93 Czeslaw Milosz  
93 Letter from "The Novel in Poland"

97 Robert N. Bellah  
97 Civil Religion in America

119 John T. Noonan, Jr.  
119 Intellectual and Demographic History

143 Roger W. Shattuck  
143 Thoughts on the Humanities

151 Gerald Holton  
151 The Roots of Complementarity

199 Frank E. Manuel  
199 The Use and Abuse of Psychology in History

227 Octavio Paz  
227 Eroticism and Gastroscopy

251 Northrop Frye  
251 The Search for Acceptable Words

273 Vernon E. Jordan, Jr.  
273 Blacks and Higher Education—Some Reflections

283 **Kenneth S. Lynn**  
Adulthood in American Literature

299 **Lewis Thomas, M.D.**  
On the Science and Technology of Medicine

317 **Elizabeth Hardwick**  
Domestic Manners

333 **David Baltimore**  
Limiting Science: A Biologist's Perspective

345 **Jean Starobinski**  
The Accuser and the Accused

371 **Stanley Hoffmann**  
Fragments Floating in the Here and Now

409 **Judith N. Shklar**  
Learning without Knowing

439 **John Hope Franklin**  
The Land of Room Enough

457 **Mary Douglas**  
The Effects of Modernization on Religious Change

485 **Per Olov Enquist**  
On the Art of Flying Backward with Dignity

# Contents

---

## In Search of Canada

Number 4, Fall 1988

ix      **Preface**

1      **William Kilbourn**  
1      **The Peaceable Kingdom Still**

31      **F. Kenneth Hare**  
31      **Canada: The Land**

51      **Robert F. Harney**  
51      **"So Great a Heritage as Ours"**  
51      **Immigration and the Survival of the Canadian Polity**

99      **David H. Flaherty**  
99      **Who Rules Canada?**

129      **Lloyd Axworthy**  
129      **The Federal System—An Uncertain Path**

155      **Robert G. Evans**  
155      **"We'll Take Care of It for You"**  
155      **Health Care in the Canadian Community**

191      **Geraldine A. Kenney-Wallace and J. Fraser Mustard**  
191      **From Paradox to Paradigm:**  
191      **The Evolution of Science and Technology in Canada**

215      **Eleanor Cook**  
215      **"A Seeing and Unseeing in the Eye"**  
215      **Canadian Literature and the Sense of Place**

237      **Alan F. J. Artibise**  
237      **Canada as an Urban Nation**

265      **Gérard Pelletier**  
265      **Quebec: Different but in Step with North America**

283      **Leon Dion**  
283      **The Mystery of Quebec**

319 **Margaret Catley-Carlson**  
Aid: A Canadian Vocation

335 **Monique Bégin**  
Debates and Silences—Reflections of a Politician

363 **Donald S. Macdonald**  
Three Perspectives on Canada's Future

381 **John Conway**  
An "Adapted Organic Tradition"